

Twitter Thread by [Billy Bostickson](#) ■■■&■ ■

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1. WIV Research groups (archived pages) for Reference dsRNA viruses molecular biology

<https://t.co/lwrQoo6ygG>



2. Emerging Viruses Group

<https://t.co/ND56gVGOAn>



3. Structural Biology of Viral Genome Replication

<https://t.co/wUqc0YIP3X>

Wuhan Institute of Virology,CAS
中国科学院武汉病毒研究所



Structural Biology of Viral Genome Replication

病毒基因组复制结构生物学学科组



HomeResearch TeamScientific research resultsThematic resourcesResearch platformcontact usEnglish

Subject leader- +



Gong Peng

Introduction to Subject Group- +



4. Molecular Biology of hepatitis Viruses & Gene Therapy

<https://t.co/snBbxkhNsC>

Wuhan Institute of Virology,CAS
中国科学院武汉病毒研究所



Research Group of Molecular Biology of Hepatitis Viruses & Gene Therapy

肝炎病毒分子生物学及基因治疗学科组



HomeScientific research resultsResearch TeamResearch projectinformation resourceRelated databaseGroup communicationEnglish

Subject leader- +



Research areas- +

We have carried out molecular epidemiology, molecular biology, drug resistance mechanism, virus and host of hepatitis B virus (HBV) and hepatitis C virus (HCV) for important viral diseases that endanger human health, such as hepatitis B and C. (Cell) interaction and other aspects of research, reveal the molecular mechanism of virus disease, develop genetic engineering vaccines, and explore new diagnostic and treatment methods (gene therapy).

To study the mechanism of baculovirus invading mammalian cells, the state of baculovirus genomic DNA in mammalian cells and experimental animals, and the expression of target genes, and to understand the safety and efficiency of baculovirus for gene therapy. Lay the foundation of application, and construct a series of baculovirus vector systems with independent intellectual property rights for gene therapy of important diseases... [View details]

5. Insect Virus Genetic Engineering Lab

<https://t.co/S68mVOA2Ob>

Wuhan Institute of Virology, CAS
中国科学院武汉病毒研究所

Insect Virus Genetic Engineering Lab
昆虫病毒基因工程学学科组

Home page Research Team Research topic Scientific research results Published papers Related agencies Research dynamics
information resource

Subject leader - +



Introduction to Subject Group - +

Insect Virus Genetic Engineering Subject Group

Mainly engaged in basic and applied basic research on insect virus molecular biology and genetic engineering. The main research directions include insect virus classification and identification, gene function and infection mechanism, and the development of new pest biological control technologies. There are currently 3 fixed researchers, including 1 researcher, 1 assistant researcher, and 1 experimentalist. There are currently 12 PhD and master candidates.

6. HIV Molecular Epidemiology and Virology

<https://t.co/ZF5xZ9q5VO>

病毒学国家重点实验室
中国科学院武汉病毒研究所

Research Group of HIV Molecular Epidemiology and Virology
分子流行病学与分子病毒学学科组

Home Research Team Major project Notes in this group Research facilities From the virus Scientific research results ENGLISH
Field monitoring Resource Sharing Related results

Subject leader - +



Yang Rongge
researcher
PhD Tutor
Yang

Introduction to Subject Group - +

This subject group was established in 2002. After several years of construction, the laboratory now has the basic experimental conditions for carrying out HIV/AIDS molecular virology and other related scientific research topics at the molecular, cellular and animal levels, and has formed a structure A scientific research team with reasonable, high efficiency and quick response. The subject group has undertaken a number of major national projects, international cooperation and other local cooperation projects, and has achieved a series of fruitful results. In this research field, he has established long-term cooperative relations with many research institutions in Japan, Singapore, Germany, France and the United States.

The subject group is mainly dedicated to HIV/AIDS molecular biology research. Focus on (1) HIV gene mutation and evolution and the biological characteristics of HIV strains. (2) Research on infection model of pathogenic mechanism. Including the interaction mechanism between HIV protein and cytokine; SIV/HSIV infection animal model. (3) Research on the

7. Molecular Immunology

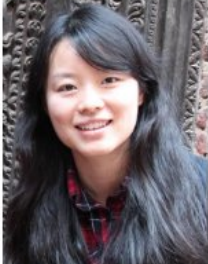
<https://t.co/Qo1Lo1Qkiy>

Wuhan Institute of Virology, CAS
中国科学院武汉病毒研究所

Research Group of Molecular Immunology
分子免疫学科组

Home Laboratory members Paper publication Subject dynamic tracking Research project ENGLISH

Subject group introduction



name

Subject group published an article in "Cell host & Microbe"

The subject group was invited to publish an article in the famous journal Cytokine & Growth Factor Reviews

Congratulations to researcher Wang Yanyi, head of the subject group, for receiving funding from the National Science Fund for Outstanding Youth in 2014

research direction

During the long-term game with viruses, the host has formed a highly complex and sophisticated

8. Biological Control of Arbovirus Vectors

<https://t.co/FKG95bCfDn>

Wuhan Institute of Virology, CAS
中国科学院武汉病毒研究所

Biological Control of Arbovirus Vectors
虫媒病毒媒介控制学科组

Home Research Team Research results Research Project Academic exchange Literature information Group culture Virus

Subject introduction

Single full text display



Research direction

Carry out arbovirus detection and biological control of vector mosquitoes. Focus on the rapid detection of dengue virus, Japanese encephalitis virus and West Nile virus and the interaction between the virus and the host, mosquito pathogenic microorganisms and their genetic resources, microbial genomics and comparative genomics, and mosquito toxin protein characteristics And the mode of action, the genetic improvement of mosquito-killing bacteria and the construction of engineered strains, the development of new bacterial mosquito-killing preparations and the assessment of the environmental safety of wild-type and recombinant microorganisms, etc., develop new biological control technologies, and establish and perfect biological control Integrated control system for mosquitoes based on arboviruses. Currently undertaking the National 973, 863, National Natural Science Foundation of China, key directional projects of the Chinese Academy of Sciences, the United Nations World Health Organization and many international cooperation and other local cooperation projects. In this research field, he has established long-term

9. HIV Viral Biochemistry

<https://t.co/xshpTe90ao>

Wuhan Institute of Virology, CAS
中国科学院武汉病毒研究所

Research Group of HIV Viral Biochemistry
病毒生物化学学科组

Home Research Members Production Information search Images News BBS

Subject leader

Subject leader
Xiao Gengfu, PhD, researcher.

Bachelor of Medicine in Environmental Medicine from Tongji Medical University in 1989
Received a master's degree in environmental microbiology from Tongji Medical University in 1992
Received a PhD in Virology from Wuhan University in 1999
From July 1992 to December 2008, he served as an assistant, lecturer, associate professor and professor in the Department of Virology (School of Life Sciences) of Wuhan University.
In May 2003, he was awarded the Hubei Province "Youth Outstanding Talents" Fund, and in December 2006, he was selected as the "New Century Outstanding Talents" support program of the Ministry of Education.

contact details

Phone: 86-27-87198352 86-27-87198232
Email: biochemistry@wh.iov.cn
jinhui@wh.iov.cn
Address: No. 44, Xiaohongshan Middle District, Wuchang, Wuhan
Postal Code: 430071

10. Laboratory of Infection and Immunity

<https://t.co/O3bQWTSJdh>

Wuhan Institute of Virology, CAS
中国科学院武汉病毒研究所

Laboratory of Infection & Immunity
感染与免疫学学科组

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Research projects/Projects English

Subject leader



Tang Hong, PhD, researcher

Tang Hong, PhD, researcher. After graduating from the Department of Biochemistry of Nanjing University, he received a PhD in Molecular Genetics and Microbiology from Rutgers University and Robert Wood Johnson University School of Medicine, and completed his postdoctoral work at Massachusetts Institute of Technology.

Main research direction

Innate immune recognition and response mechanism, innate immune response mechanism of virus infection, inflammatory response and its regulatory mechanism

contact us



11. Virology and Nanobiology

<https://t.co/fgBJsJMQfg>

Wuhan Institute of Virology, CAS
中国科学院武汉病毒研究所

Research Group of Virology and Nanobiology
病毒纳米生物学学科组

Home
Research Team
Scientific research results
Group culture
Recruitment
Field monitoring

Subject leader



Cui Zongqiang : Male, born in

Single full text display

research direction:

Taking HIV, influenza virus and new-onset viruses as objects, we will study the molecular dynamics and mechanisms of the interaction between the virus and the host (at the level of living cells and living bodies), and reveal the pathogenic mechanism of the virus and the host's response mechanism.

Research on functional nano-components and systems, and develop new technologies such as virus nano-vaccine and detection.

research content:

- 1) Dynamic tracking of a single virus invading cells;
- 2) Mechanism of interaction between virus and host;
- 3) New nano-vaccine.

12. Neurovirology Research Group
<https://t.co/2G7NVbDiLI>

Wuhan Institute of Virology, CAS
中国科学院武汉病毒研究所

Neurovirology Research Group

神经病毒学学科组

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Cytomegalovirus Popular Science Academic exchange Information monitoring

Subject leader - +

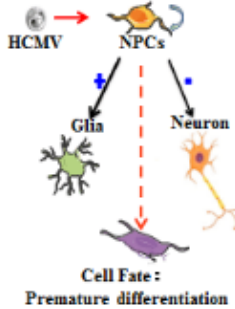


Luo Minhua MD & Ph.D.
Researcher of Wuhan Institute of Virology, Chinese

research direction - +

1. Neurophilic herpes virus-induced brain damage mechanism : establish a systematic neural model of CMV congenital infection, analyze the virus-induced brain damage mechanism, discover new intervention targets and biomarkers, and provide new ideas for clinical diagnosis and intervention.

NPC model: HCMV and NPC Cell Fate



HCMV infection cell model
Luo MH *et al.* *J Virol* 2007
Luo MH *et al.* *J Virol* 2008
Luo MH *et al.* *J Virol* 2010
Pao X *et al.* *J Virol* 2013

HCMV and NPC cell fate
Luo MH *et al.* *J Virol* 2007
Duan YL *et al.* *J Virol* 2014 (Spot light)
Li XJ *et al.* *J Virol* 2015
Pu YH *et al.* *J Virol* 2015
Jiang HF *et al.* *J Virol* 2017
Liu SJ *et al.* *PLoS Pathog* 2017
Wu CC *et al.* *J Virol* 2018
Yang B *et al.* *J Virol* 2018

HCMV and inflammation
Li V, ..., Luo MH, ..., Zhang X. *Nat Neurosci*. 2017
Zou H, ..., Luo MH, ..., Lu Y. *Nat Commun*. 2017
Wang YK, ..., Luo MH, ..., Wang XM. *Exp Neurol*. 2017

13. Lab of Diagnostic Microbiology

<https://t.co/s3seStznql>

Wuhan Institute of Virology, CAS
中国科学院武汉病毒研究所

Lab of Diagnostic Microbiology

诊断微生物学学科组

Home research direction Research Team Scientific research results Technical cooperation Cooperative Research Institution
Group communication English Field monitoring Information service

Technical support: Information System Department, Wuhan Literature and Information Center, Chinese Academy of Sciences (zsfw.whlib.ac.cn) build20150920

14. List of Doctoral Supervisors with links to profiles

(if you see any that are not archived, please archive them with <https://t.co/mA4co7ioje> or <https://t.co/ix3lTqChM0> or wayback machine)

Page 1: <https://t.co/mqLwUCtN9U>

Page 2: <https://t.co/ssW1jfRaop>

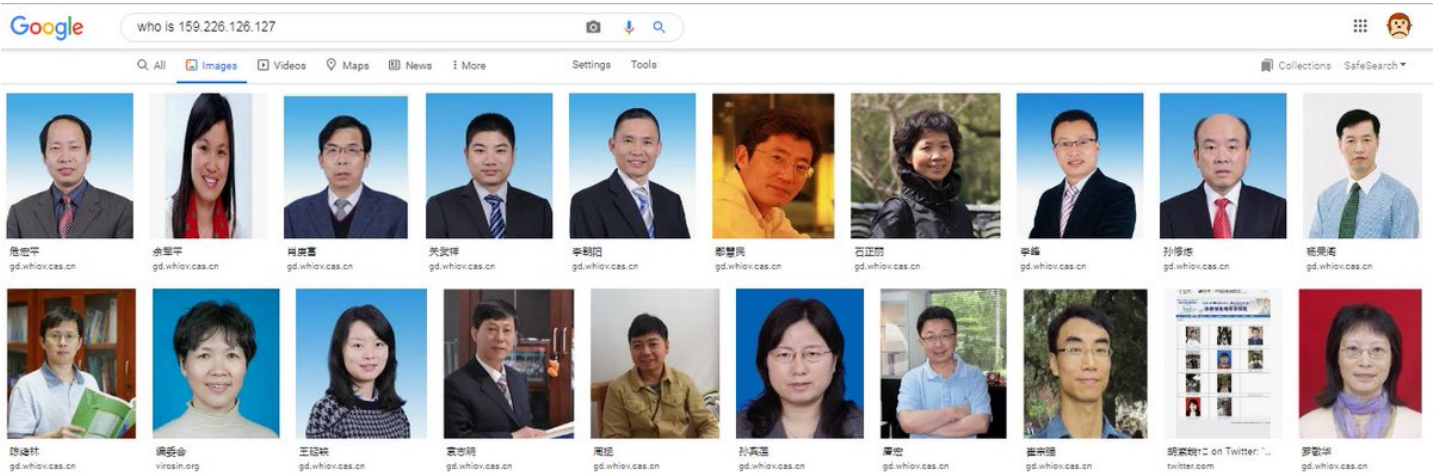
[You are here: Home](#) >> [Instructors](#) >> [doctoral tutor Profile](#)

> Chen Quanjiao	[2018-07-05]
> Liu Di	[2017-08-07]
> Zhou Xi	[2017-05-02]
> Peng Ke	[2016-11-23]
> Cui Jie	[2016-04-26]
> Wei Bin	[2015-03-23]
> Cao Sheng	[2015-03-23]
> Dunphy	[2015-03-23]
> Yan Huimin	[2014-10-14]
> Gong Rui	[2014-10-14]
> Gong Peng	[2014-10-14]

15. Who is 159.226.126.127 ?

Image search and expand, all archived now

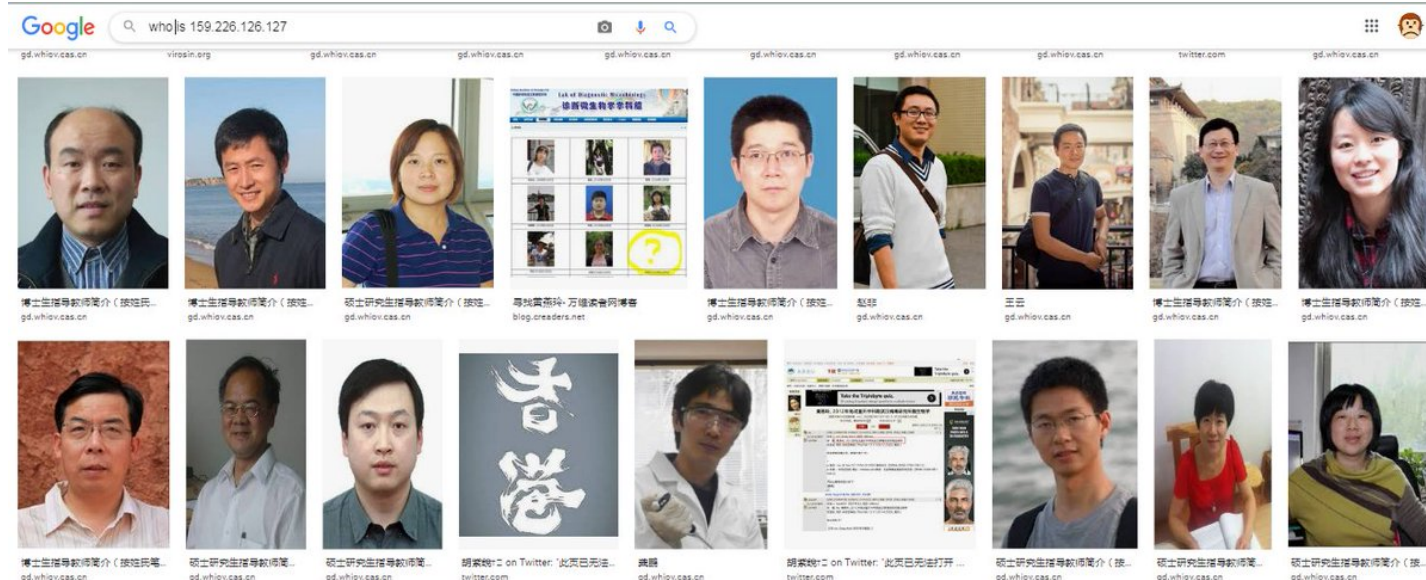
<https://t.co/8iM16tIVlg>



16. Who is 159.226.126.127 ?

Image search and expand, all archived now (2)

<https://t.co/8iM16tIVlg>



17. Brief introductions of WIV master's instructors - 1 Page

<https://t.co/fUIH8jE2KH>

18. Introduction of WIV Doctoral Supervisors - 1 Page

<https://t.co/kuLGuzNVJG>

Archived: <https://t.co/HrcpXmh2RV>

19. Which groups are of most interest to our investigation?

Probably Number 1 will be the Emerging Viruses Group directed by Shi Zhengli, and specifically its research aims and projects

<https://t.co/pgwifkCDCW>

2. Emerging Viruses Group <https://t.co/ND56gVGOAn> pic.twitter.com/SaepAYhaOg

— Billy Bostickson \U0001f3f4\U0001f441&\U0001f441 \U0001f193 (@BillyBostickson) January 18, 2021

20. Research Aims 1-6

Mainly 4 and 6 below

At this stage, our main research contents include:

- 1) Research on the distribution and genetic evolution of important human pathogens in bat populations: The infection status of important infectious viruses such as SARS virus, Ebola virus and Hantavirus in bats, including pathogenic nucleic acid and serological testing, Genome and genetic variation, serological and molecular evolutionary relationships with known human pathogens, etc.
- 2) Research on the distribution and genetic evolution of common viral pathogens in bat populations: common viral pathogens such as coronavirus, paramyxovirus, astrovirus, adenovirus, circovirus, picornavirus, parvovirus, reovirus, etc. Infection in bats, including pathogenic nucleic acid detection, genome and genetic variation, serological and molecular evolutionary relationships with known human pathogens, etc.
- 3) Bat virus metagenomics analysis: study the metagenomics of bat respiratory and enteric viruses of different populations, compare and analyze the differences in virus spectrum carried or transmitted by different populations, and study the role of different bat populations in spreading viruses.

21. Research Projects, Programmes & State Funding

<https://t.co/wEJOE9jmfv> Tks @TheSeeker268

973 Program

Research on molecular mechanism of important viruses' cross-species infection and transmission

(2011.1-2015.12)

Type II enveloped virus invasion mechanism

(2010.1-2014.12)



病毒学国家重点实验室
中国科学院武汉病毒研究所

Emerging Viruses Group
新发病毒学科组

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Funded by the National Key Basic Research and Development Program (973 Program)

- Research on the molecular mechanism of important viruses' cross-species infection and transmission (2011.1-2015.12)
- Type II enveloped virus invasion mechanism (2010.1-2014.12)

National Infectious Disease Major Special Project (Twelfth Five-Year) Funding Project

- Survey on the status of coronavirus carried by rodents and small mammals in Guangdong, Yunnan and other regions (2014.1-2016.12)

National Science Fund subsidized project

- Major project-Discovery, isolation and identification, distribution characteristics, genetic evolution and pathogenicity of human pathogens carried by bats (2013.1-2017.12)
- General Project-Research on Recognition and Invasion Mechanism of Bat SARS-like Coronavirus Receptor (2015.1-2018.12)
- Youth Fund-Functional Research on the SARS-like Coronavirus Specific Gene orfX (2015.1-2017.12)
- Youth Fund-Research on the pathogenicity of bat orthoreovirus on experimental animals (2015.1-2017.12)
- Youth Fund-Research on interferon response and inflammatory response caused by RNA virus infection of bat cells (2015.1-2017.12)
- Youth Fund-Bat Cell Immune Response and Viral Transcriptome Analysis after Bat Adenovirus Infection (2013.1-2015.12)
- International (China-Singapore) Cooperation and Exchange Project-New pathogen detection technology for SARS or MERS-like emerging infectious diseases (2017.01.01-2019.12.31)

22. National Infectious Disease Major Special Project

(12th 5-Year) Funding Project

Survey on the status of coronavirus carried by rodents and small mammals in Guangdong, Yunnan and other regions
(2014.1-2016.12)

23. National Science Fund subsidized project

Major project-Discovery, isolation and identification, distribution characteristics, genetic evolution and pathogenicity of human pathogens carried by bats

(2013.1-2017.12)

24. General Project-Research on Recognition and Invasion Mechanism of Bat SARS-like Coronavirus Receptor

(2015.1-2018.12)

Youth Fund-Functional Research on the SARS-like Coronavirus Specific Gene orfX (2015.1-2017.12)

25. Youth Fund-Research on the pathogenicity of bat orthoreovirus on experimental animals (2015.1-2017.12)

Youth Fund-Research on interferon response and inflammatory response caused by RNA virus infection of bat cells
(2015.1-2017.12)

26. Youth Fund-Bat Cell Immune Response & Viral Transcriptome Analysis after Bat Adenovirus Infection (2013-2016)

International (China-Singapore) Cooperation & Exchange Project-New pathogen detection technology for SARS or MERS-like emerging infectious diseases (2017-2019.12.31)

27. Science and Technology Fundamental Work Special

Investigation of main natural hosts and vector insect virus pathogens in Yunnan (2013.6.1-2018.5.31)

Knowledge Innovation Project of the CAS

Infectious Diseases and Biosafety Network Center

(2011.1-2014.6)

28. Construction Technology of Artificial Phage-3

(2011.1-2013.12)

Project funded by China-Africa Joint Research Center of Chinese Academy of Sciences

Prevention and control of pathogenic microorganisms and epidemics in Africa

(2016.1-2018.12)

29. Papers emerging from Projects & other WIV output (2000 up to 2016)

Published papers-SCI included (47)

<https://t.co/3WvyWZBlrH>

Published papers-non-SCI indexed (37) Same page

<https://t.co/3WvyWZBlrH>

(1992 - 2014)

30. Research Team Profiles

<https://t.co/kQb2sk5kft>

31. The Famous Field Sampling Photographs

(What is PPE)

<https://t.co/FJeRzUruL1>

Senior Officers

<https://t.co/kQb2sk5kft>

PhD Students

<https://t.co/l1YnkBPr4>

Doctoral students (16 people) and masters (14)

<https://t.co/9NVHby2IVo>

The Past is like a Song

<https://t.co/bAeEqiY0Ai>

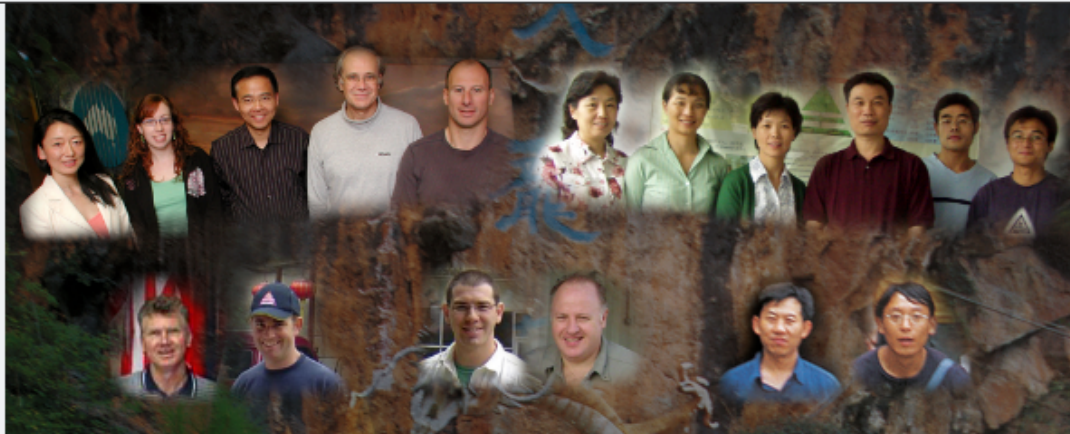
The past is like a song		
		
Zhang Jianhong (2000-2008) Senior Experimenter	Zhang Huajun (2007-2009) Assistant Researcher	Zhou Peng (2010-2011) Assistant Researcher
		
Wu Yongquan (200907-201201) Assistant Experimenter	Li Sisi (201107-201305) Assistant Experimenter	Zheng Zifeng (201304-201408) Assistant Experimenter

32. The Lab Families

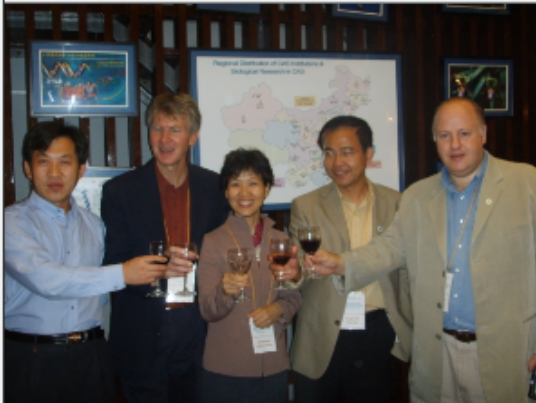
<https://t.co/ujBgloTL1u>

Global Cooperation

<https://t.co/w6IJIHSzRI>



All the authors of "Bats are SARS-like Coronaviruses" published on Science



Celebrate the publication of Science articles



Group photo of all colleagues from the French Marine Invertebrate Defense Laboratory

33. Results of their Research

<https://t.co/07wwlLo0py>

两位美国著名的科学家，诺贝尔奖金获得者巴尔蒂莫尔D. Baltimore教授（发现逆转录酶及肿瘤病毒和细胞遗传物质的作用），和Paul Berg教授（开创DNA重组技术及DNA排列的方法）给高尚毅教授为《病毒学杂志》的创办寄来贺信。

Dr. Gao Shang-yin
Wuhan University
Wuchang, Hubei
The People's Republic of China

Dear Dr. Gao,

It is with great pleasure that I learn of your plans to begin publication of *Acta Virologica Sinica*. I trust that the activities of Chinese virologists will make this one of the premier journals of virology in the world.

Sincerely,

Serving the society since 1986

亲爱的郭博士，
获悉您打算创办《病毒学杂志》的计划后，我极为高兴。我坚信中国病毒学家所从事的工作定会使这份刊物立足于世界病毒学界。

您忠实的
大卫·巴尔蒂莫尔
麻省理工学院怀特海德生物学
研究所所长
一九八五年九月二十五日

STANFORD UNIVERSITY
DEPARTMENT OF BIOLOGY

Dr. Gao Shang-yin
Professor of Virology
Wuhan University
Wuchang, Hubei
The People's Republic of China

Dear Professor Shang-yin

It was a great pleasure since stepping down from my position as President of the International Union of Pure and Applied Microbiology (IUPAC) to contribute to our scientific knowledge by joining your new journal. I hope you are well and looking forward to seeing you at Stanford again or at Wuhan.

With best personal regards,

亲爱的尚教授，
承蒙获悉，不胜荣幸。甚盼有关我对病毒学科学知识的贡献能有助于您的研究。祝您身体健康，不久的将来，我以个人的名义，向您致以问候。

34. Where it started?

Investigation of important natural hosts and vector insect virus pathogens in my country" launched
Central government portal <https://t.co/eGoCuNbgrg> at 09:07 on June 24, 2013
<https://t.co/eo3aEb1J4S>

The project is undertaken by the Wuhan Institute of Virology of the Chinese Academy of Sciences. It will carry out investigations and traditional isolation and identification of virus pathogens, develop high-throughput detection methods for different species of virus pathogens, and collect virus pathogen macros. Genome data, construction of the virus database and genetic resource database of the main natural hosts and vector insects in my country.

35. Useful Background Article

Beginning & end of U.S. virus transformation monitoring
Alex Cui, Ph.D. US Computational Biology scientist
"The most dangerous man-made virus"
Virologists scramble to transform virus research and raise public safety concerns
<https://t.co/CzY6edTj5g>

36. Next Step, further research into the projects by:

[@BillyBostickson](#) [@TheSeeker268](#) [@interne41914499](#) Likely we are just going over well trodden ground but you never know what you may find when doing that, especially with the wisdom of hindsight.